

Product Guide

Series	MICRO X-II Series					XS Series		
Product								
	Micro X-II	Micro X-II Paintshop	Micro X-II Autoclavable	Micro X-II Plus Automotive	Nano X- II	XS Dash-On	XS Dot-On	XS Dot Wedge
Operating frequency	902-928 MHz (US) 866-868 MHz (EU)	902-928 MHz (US) 866-868 MHz (EU)	902-928 MHz (US) 866-868 MHz (EU)	902-928 MHz (US) 866-868 MHz (EU)	902-928 MHz (US) 866-868 MHz (EU)	902-928 MHz(US) 866-868 MHz (EU)	902-928 MHz (US) 866-868 MHz (EU)	902-928MHz(US) 866-868 MHz(EU)
IC type	Alien Higgs-3	Alien Higgs-3	Alien Higgs-3	Qstar-56GN	Alien Higgs-3	Alien Higgs-3	Alien Higgs-3	Alien Higgs-3
Memory configuratic	96 EPC bits, extendable to 480-bit, 512-bit user memory, 64-bit TID	96 EPC bits, extendable to 480-bit, 512-bit user memory, 64-bit TID	96 EPC bits, extendable to 480-bit, 512-bit user memory, 64-bit TID	496-EPC bits; 2K-bit user memory; 256-bit TID	96 EPC bits, extendable to 480-bit, 512- bit user memory, 64-bit TID	96 EPC bits, extendable to 480-bit, 512- bit user memory, 64-bit TID	96 EPC bits, extendable to 480-bit, 512-bit user memory, 64-bit TID	96 EPC bits, extendable to 480-bit, 512-bit user memory,
Read range on metal (2W ERP)	Up to 33 ft (10 m)	Up to 33 ft (10 m)	Up to 33 ft (10 m)	Up to 23 ft (7 m)	Up to 20 ft (6 m)	Up to 6.6 ft (2 m)	Up to 5 ft (1.5 m)	Up to 3.3 ft (1 m)
Read range off metal	Limited	Limited	Limited	Limited	Limited	Limited	Limited	Limited
Case material	Engineering grade nylon polymer	Engineering grade nylon polymer	Engineering grade nylon polymer	Engineering grade nylon polymer	Engineering grade nylon polymer	Ceramic	Ceramic	High performance engineering polymer
Mounting system	Rivet hole, ø 0.12 in (3.2 mm); adhesive (optional)	Screws (Rivet hole, M3) Pop rivets (Max size 2.4mm)	Screws (Rivet hole, M3) Pop rivets (Max size 2.4mm)	Screws (Rivet hole, M4) Pop rivets (Max size 3.2mm) Adhesive bondings	High performance adhesive	Epoxy	Epoxy	Embeddable 
Operating temperature	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)	-22°F to +185°F (-30°C to +85°C)	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)
Application temperature	-40°F to +482°F (-40°C to +250°C)	-40°F to +482°F (-40°C to +250°C)	-40°F to +302°F (-40°C to +150°C)	-40°F to +482°F (-40°C to +250°C)	-40°F to +302°F (-40°C to +150°C)	-40°F to +302°F (-40°C to +150°C)	-40°F to +302°F (-40°C to +150°C)	-58°F to +428°F (-50°C to +220°C)
Compression strength	181 psi (1250 kPa)	181 psi (1250 kPa)	181 psi (1250 kPa)	725psi (5000 kPa)	166.8 psi (1150 kPa)	790 psi (5447kPa)	790 psi (5447kPa)	10,100psi (70 MPa)
I P classification	IP68	IP68	IP69K	IP68	IP68	IP68	IP68	IP68
Dimensions	2.01 x 1.43 x 0.30 in (51 x 36.3 x 7.5 mm)	2.01 x 1.43 x 0.30 in (51 x 36.3 x 7.5 mm)	2.01 x 1.43 x 0.30 in (51 x 36.3 x 7.5 mm)	2.27 x 1.43 x 0.30 in (57.6 x 36.3 x 7.5 mm)	1.25 x 0.51 x 0.20 in (31.7 x 12.8 x 4.8 mm)	0.48 x 0.12 x 0.09 in (12.3 x 3 x 2.2 mm)	ø 0.24 x 0.1 in (ø 6 x 2.5 mm)	ø 0.405 x 0.181 in (ø 10.3 x 4.6mm)
Weight	0.92 oz (26 g)	0.98 oz (28 g)	0.98 oz (28 g)	1.06 oz (30 g)	0.18 oz (5 g)	0.016 oz (0.44 g)	0.012 oz (0.34 g)	0.28 oz (8 g)
Suggested applications	Bulk container tracking, vehicle tracking, post-paint oven baking, medical equipment tracking	Automotive manufacturing	Healthcare Equipments Management Assets Trackingin Autoclavable Environment	Automotive manufacturing	Tool tracking, WIP conveying equipment, IT/ telecom management, instrument tracking, weapons tracking	Instrument tracking, tool tracking, medical device management, source tagging	Instrument tracking, tool tracking, medical device management,source tagging	Onshore and Offshore Pipes Heavy Equipment and Tools Automotive Manufacturing Molds

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Product Guide

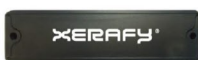
	PICO Series				ROSWELL Series		TRAK Series									
Series																
Product																
	Pico X II Plus Pico On Plus		Pico-iN Plus		Autoclavable Roswell Roswell		Xplorer Surface Xplorer Downhole		Versa Trak		Data Trak II		Global Trak		Slim Trak	
Operating frequency	902-928 MHz (US) 866-868 MHz (EU)		902-928 MHz (US) 866-868 MHz (EU)		902-928 MHz (US) 865-868 MHz (EU)		902-928MHz (US) 865-868MHz (EU)		902-928MHz (US) 866-868MHz (EU)		902-928 MHz (US) 866-868 MHz (EU)		860-960 MHz (Global) 		860-960 MHz (Global) 	
IC type	Alien Higgs-3		Alien Higgs-3		Alien Higgs-3		Alien Higgs-3		Alien Higgs-3		Impinj Monza 4E		Impinj Monza 4QT		Alien Higgs-3	
Memory configuration	96EPC bits, extendable to 480bits (512 bits usermemory), 64-bit TID		96 EPC bits, extendable to 480- bit, 512-bit user memory, 64-bit TID		96 EPC bits, extendable to 480-bit, 512- bit user memory, 64-bit TID		96 EPC bits, extendable to 480-bit, 512-bit user memory, 64-bit TID		96EPC bits, extendable to 480-bit, 512- bit user memory, 64-bit TID		48-bit serialized TID, 496 EPC bits,128-bit user memory		128-EPC bits; 512-bit user memory		96-bit EPC, 512-bit user memory, 64-bit TID	
Read range on metal (2W ERP)	Up to 10 ft (3 m)		Up to 6.6 ft (2m) when embedded		Up to 16.4 ft (5 m)		Up tp 5 ft (1.5m) when embedded		Up to 26 ft (8 m)		Up to 14.8 ft (4.5 m)		Up to 8 ft (2.5 m)		Up to 6.5 ft (2 m)	
Read range off metal (2W ERP)	Limited		Limited		Limited		Limited		Up to 13 ft (4 m)		Up to 8 ft (2.5 m)		Up to 6 ft (1.8 m)		Up to 4.9 ft (1.5 m)	
Case material	Engineering grade nylon polymer/ Ceramic		Ceramic		Stainless steel/ Aluminum 6061-T6		Stainless steel		Anti-UV Industry Grade Polymer		Polycarbonate		Polycarbonate		FR4	
Mounting system	High performance adhesive		Epoxy, embeddable 		Welding, cable tie, rivet hole ø 0.19 in (ø 5 mm)		Embeddable 		High performance adhesive/		Adhesive; built-in ø 0.1 in (2.6 mm) tethering hole		Adhesive; built-in ø 0.1 in(2.6 mm) tethering hole		Adhesive (TESA 51972), epoxy (optional)	
Operating temperature	-22°F to +185°F (-30°C to +85°C)		-22°F to +185°F (-30°C to +85°C)		-40°F to +185°F (-40°C to +85°C)		-40°F to +185°F (-40°C to +85°C)		-40°F to +185°F (-40°C to +85°C)		-40°F to +185°F (-40°C to +85°C)		-40°F to +185°F (-40°C to +85°C)		-40°F to 185°F (-40°C to +85°C)	
Application temperature	-40°F to +302°F (-40°C to +150°C)		-40°F to +302°F (-40°C to +150°C)		-40°F to +482°F (-40°C to +250°C)		-58°F to +482°F (-50°C to +250°C)		-40°F to +185°F (-40°C to +85°C)		-40°F to +185°F (-40°C to +85°C)		-40°F to +185°F (-40°C to +85°C)		-40°F to +302°F (-40°C to +150°C)	
Compression strength	174 psi (1200 kPa) / 170 psi (1176 kPa)		Packaging dependent		1145 psi (7900 kPa)/ 115 psi (793 kPa)		30,000 psi (206 MPa)		26.1 psi (180 kPa)		14.5 psi (100 kPa)		14.5 psi (100 kPa)		106 psi (731 kPa)	
IP classification	IP68		IP68		IP68		IP69K		IP54		IP54		IP54		IP68	
Dimensions	0.70 x 0.43 x 0.2 in (17.7 x 10.9 x 5 mm)/ 0.5 x 0.28 x 0.12 in (12.8x 7.08 x 3.08 mm)		0.5 x 0.28 x 0.12 in (12.8 x 7.08 x 3.08 mm)		1.89 x 1.10 x 0.53 in (48 x 28 x 13.5 mm)		ø 1.11 x 0.33 in / (ø 28.3 x 8.5 mm)		1.98 x 0.67 x 0.21 in (50.3 x 17 x 5.3 mm)		1.50 x 0.51 x0.16 in (38 x 13 x 4 mm)		1.50 x 0.51x0.16 in (38 x 13 x 4 mm)		2.22 x 0.234 x 0.051 in (56.5 x 5.95 x 1.3 mm)	
Weight	0.07 oz (2 g) / 0.05oz (1.4g)		0.05 oz (1.4 g)		1.55 oz / 44 g 0.74 oz / 21 g		0.89 oz (25.4 g)		0.39 oz (11 g) 0.11 oz (3 g)		0.08 oz (2.3 g)		0.09 oz (2.6 g)		0.035 oz (1 g)	
Suggested applications	Tool tracking, weapon tracking, medical device management, instrument tracking		IT and laptop tracking, tool tracking, embedded bolt identification n, weapons tracking		Surgical Trays Oil & Gas Valve Wellhead Management Food Processing Plants, Automotive Manufacturing		Downhole and Surface Drill Pipes, Sub-sea Oil Pipes, BOPs and Wellheads		Unit Load Device identification, logistics management pallet tracking, RTI management, storage rack identification		IT asset management, Datacenter servers, Healthcare equipment		Global supply chain logistics, IT asset management, datacenter servers		IT server rack, military asset & weapon tracking, tool tracking	

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Product Guide

TRAK OUTDOORS Series				METAL SKIN Series					
Series									
Product									
	Container Trak	Cargo Trak II	RTI Trak	Mercury Metal Skin	Platinum Metal Skin	Titanium Metal Skin	Gamma Label	Theta Inlay	
Operating frequency	902-928MHz(US) 866-868MHz(EU)	902-928 MHz(US) 866-868 MHz(EU)	902-928 MHz(US) 866-868 MHz(EU)	860-960MHz(Global) 	902-928 MHz(US) 865-868MHz(EU)	902-928 MHz(US) 865-868MHz(EU)	860-960MHz(Global) 	860-960MHz(Global) 	
IC type	Impinj Monza R6-P	Alien Higgs-3	Alien Higgs-3	Impinj Monza 4E	Monza R6-P	Impinj Monza M5	MB97R8050-AP15-ES	Alien Higgs-3	
Memory configuration	128 EPC bits, 32-bit user memory, 48-bit TID; Max user memory 64-bit, 48 TID, 96 EPC bits	96 EPC bits, extendable to 480-bit, 512-bit user memory, 64-bit TID	96 EPC bits, extendable to 480-bit, 512-bit user memory, 64-bit TID	48-bit serialized TID, 496 EPC bits, 128-bit user memory	32 bits user memory, 128 bits EPC, 96 bits TID	48-bit serialized TID, 128 EPC bits	160-bit EPC, 176-bit serialized TID	96-bit EPC, 512-bit user memory, 64-bit serialized TID	
Read range on metal (2W ERP)	Up to 65 ft (20 m)	Up to 39 ft (12 m)	Up to 26 ft (8 m)	Up to 16 ft (5 m)	Up to 13 ft (4 m)	Up to 4 ft (1.2 m)	Limited	Limited	
Read range off metal (2W ERP)	Up to 39 ft (15 m)	Up to 20 ft (6 m)	Up to 13 ft (4 m)	Up to 13 ft (4 m)	Up to 3.3 ft (1 m)	Up to 4 ft (1.2 m)	Up to 9.8 ft (3 m)	Up to 29.5 ft (9 m)	
Case material	Anti-UV Industry Grade Polymer	Anti-UV Industry Grade Polymer	Anti-UV Industry Grade Polymer	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
Mounting system	Rivet hole, ø 1/4" M6, adhesive (optional) Cable tie, Metal Insert optional	Rivet hole, ø 0.14 in (3.5 mm); adhesive (optional)	Adhesive/Rivet hole, ø 0.14 in (3.5mm); adhesive (optional)	High performance adhesive	High performance adhesive	High performance adhesive	High performance adhesive	Injection molding	
Operating temperature	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)	-40°F to +212°F (-40°C to +100°C)	
Application temperature	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)	-40°F to +446°F (-40°C to +230°C)	
Compression strength	29 psi (200 kPa)	29 psi (200 kPa)	26.1 psi (180 kPa)	92 psi (634 kPa)	14 psi (97 kPa)	58 psi (400 kPa)	14 psi (97 kPa)	92 psi (634 kPa)	
IP classification	IP68	IP68	IP68	IP54	IP68	IP54	IP54	IP68	
Dimensions	5.46x 4.99 x 0.47 in (138.8 x 42 x 12 mm)	3.94 x 1.02 x 0.35 in (100 x 26 x 8.9 mm)	2.88 x 0.9 x 0.33 in (73.3 x 22.8 x 8.3 mm)	4 x 1.5 x 0.03 in (101.6 x 38 x 0.76mm)	2.8 x 0.75 x 0.04 in (58.5 x 19 x 1.1 mm)	1.77 x 0.22 x 0.03 in (45 x 5.6 x 0.86 mm)	2.95 x 0.79 x 0.008/ 4.0 x 2.0 x 0.008 in (75 x 20 x 0.2/ 101.6 x 50.8 x 0.2 mm)	2.8 x 0.43 x 0.005 in (71 x 11 x 0.13 mm)	
Weight	1.45 oz (41 g)	0.62 oz (17.8 g)	0.39 oz (11 g)	Reel: 4.85lbs(2.2kg)	Reel: 2.64 lbs (1.2 kg)	Reel: 2.54 lbs (1.15 kg)	Reel: 2.54 lbs (1.15 kg)	0.007 oz (0.2 g)	
Suggested applications	Outdoor using, Vehicle chassis and trailer tracking, Unit Load Device identification, logistics management	Outdoor using, Vehicle chassis and Unit Load Device identification, logistics management	Unit Load Device identification, logistics management pallet tracking, RTI management, storage rack identification	Product authentication, IT asset tracking, global supply chain, cylinder tracking, foil-based packaging	Housewares, electronic equipment computer and laptops , cosmetics, foil-based packaging	Product authentication, IT asset and laptop tracking, radio and mobile equipment, foil-based packaging	Healthcare devices and equipment, Pharmaceutical & biotech processing equipment, Food	Inject Molding, Cable Joints, Logistics	

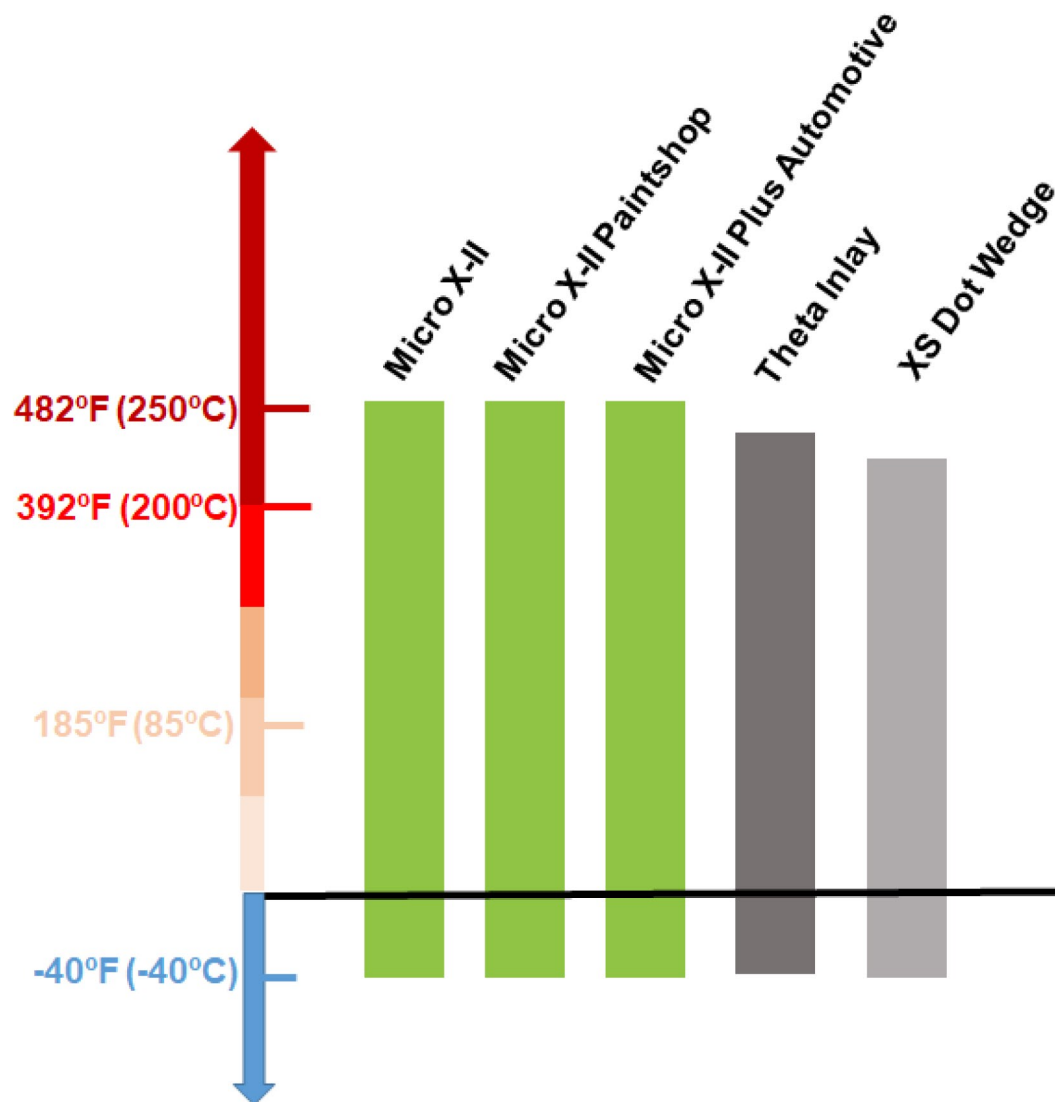
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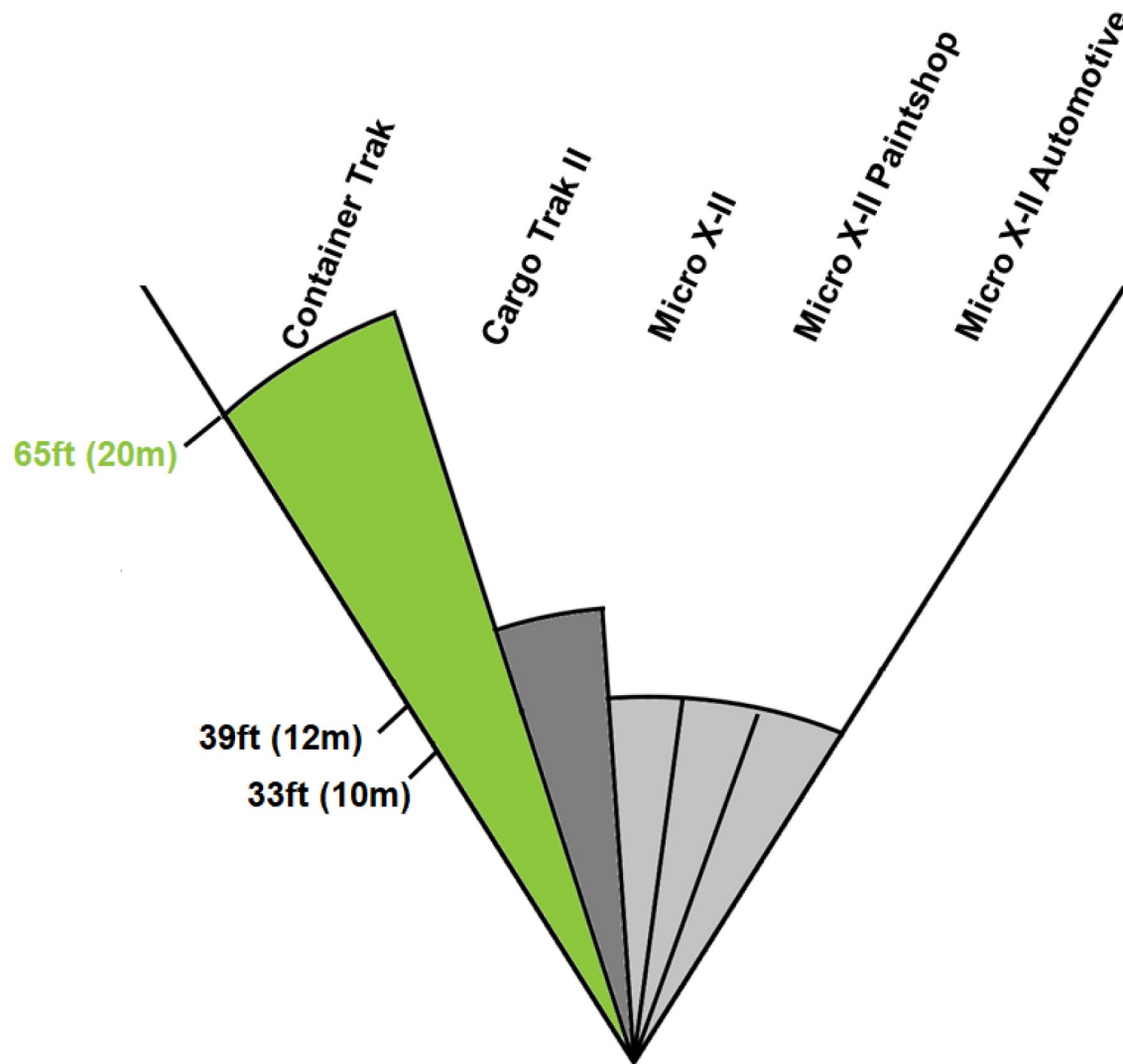
Xerafy High Temperature RFID Tags

Application temperature over 392°F (200°C)

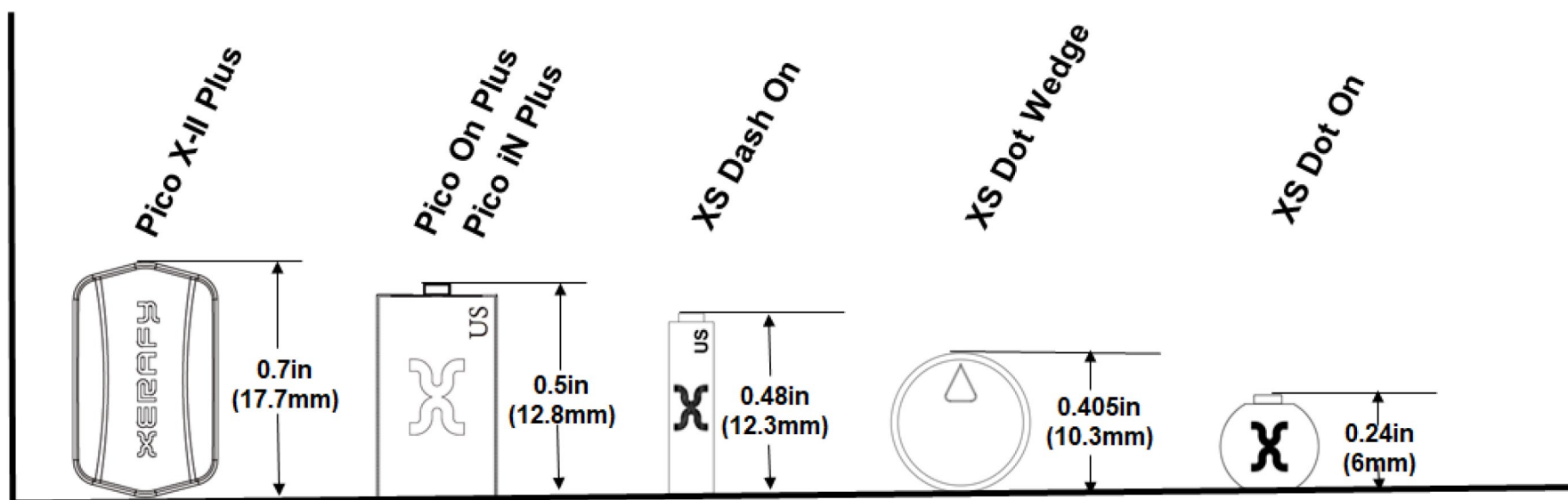


Xerafy Ultra Long-Range RFID Tags

Read range is tested on metal with fixed reader (2W ERP)



Xerafy Small Footprint RFID Tags



1 (888) 238-1155 Inside USA • 1 (205) 383-2244 Outside USA
info@atlasRFIDstore.com • www.atlasRFIDstore.com

 atlasRFIDstore.com